

The following *apparent* places of stars which were either observed by mistake for *Victoria* and *Egeria*, or observed at the same time, may be useful to extra-meridian observers :—

	R.A.	Decl.
1850.	^h ^m ^s	[°] ['] ["]
Sept. 30	23 31 19.80	+ 11 22 12.9
Oct. 4	23 28 58.12	10 41 49.6
9	23 25 28.47	9 32 48.1
Dec. 21 9 mag.	0 4 42.09	5 11 59.3
—	1 33 0.59	11 0 13.3
1851.		
Jan. 8	1 39 58.47	+ 13 8 20.2

Elements.

By Dr. B. A. Gould of Cambridge, U.S., from two Normal Places, and an Observation at Washington on December 20th.

Epoch, 1851, Jan. 0.0, Berlin Mean Time.

Mean Anomaly	65 47 23.0
Ascending Node.....	235 29 49.8 Mean Equinox.
$\pi - \Omega$	66 25 22.2
i	8 25 1.9
ϕ	12 35 46.9
μ	16' 34" 715
Log a	0.3682053
Log e	9.3386184
Log μ	2.9976987
Period	1302 ^d 23 ^h 88 Sidereal.

Ephemeris. By M. Yvon Villarceau.

For Paris Mean Noon.

dl.	R.A.	Decl.	Log Δ .	1851.	R.A.	Decl.	Log Δ .
	^h ^m ^s	[°] ['] ["]			^h ^m ^s	[°] ['] ["]	
1	0 19 52.95	+ 5 56 28.0	0.31519	Jan. 16	0 41 31.01	+ 7 18 2.1	0.35904
2	21 15.94	+ 6 1 15.1	.31826	17	43 1.15	24 7.0	.36179
3	22 39.48	6 8.5	.32131	18	44 31.69	30 15.9	.36452
4	24 3.57	11 7.9	.32434	19	46 2.62	36 28.6	.36723
5	25 28.20	16 13.4	.32735	20	47 33.93	42 45.0	.36992
6	26 53.35	21 24.6	.33034	21	49 5.62	49 5.2	.37258
7	28 19.01	26 41.5	.33330	22	50 37.63	+ 7 55 28.7	.37523
8	29 45.17	32 3.9	.33625	23	52 10.11	+ 8 1 55.6	.37785
9	31 11.82	37 31.7	.33917	24	53 42.89	8 25.8	.38046
0	32 38.94	43 4.6	.34208	25	55 16.04	14 59.0	.38304
1	34 6.51	48 42.6	.34496	26	56 49.53	21 35.3	.38560
2	35 34.55	+ 6 54 25.4	.34782	27	58 23.37	28 14.5	.38815
3	37 3.02	+ 7 0 12.9	.35065	28	0 59 57.56	34 56.6	.39067
4	38 31.93	6 4.9	.35347	29	1 1 32.07	41 41.3	.39317
5	0 40 1.26	+ 7 12 1.4	0.35626	30	1 3 6.92	+ 8 48 28.6	0.39564

851.	h	R.A. m s	Decl. ° ' "	Log Δ.	1851.	h	R.A. m s	Decl. ° ' "	Log Δ.
n. 31	1	4 42.09	+ 8 55 18.3	0.39810	Mar. 3	1 56 3.32	+ 12 37 13.9	0.46406	
32	1	6 17.58	+ 9 2 10.4	.40054	4	57 46.28	44 26.2	.46587	
2		7 53.38	9 4.7	.40295	5	1 59 29.43	51 37.6	.46766	
3		9 29.49	16 1.1	.40535	6	2 1 12.76	+ 12 58 48.2	.46943	
4		11 5.90	22 59.6	.40772	7	2 56.27	+ 13 5 57.7	.47118	
5		12 42.59	29 59.8	.41007	8	4 39.96	13 6.3	.47291	
6		14 19.58	37 1.8	.41240	9	6 23.82	20 13.7	.47463	
7		15 56.84	44 5.5	.41471	10	8 7.85	27 19.8	.47632	
8		17 34.38	51 10.8	.41700	11	9 52.04	34 24.6	.47800	
9		19 12.18	+ 9 58 17.4	.41927	12	11 36.39	41 28.1	.47965	
10		20 50.25	+ 10 5 25.3	.42152	13	13 20.90	48 30.1	.48129	
11		22 28.56	12 34.4	.42374	14	15 5.57	+ 13 55 30.5	.48290	
12		24 7.13	19 44.5	.42595	15	16 50.39	+ 14 2 29.3	.48450	
13		25 45.95	26 55.6	.42813	16	18 35.35	9 26.4	.48608	
14		27 25.00	34 7.6	.43030	17	20 20.46	16 21.8	.48765	
15		29 4.30	41 20.3	.43244	18	22 5.73	23 15.4	.48919	
16		30 43.83	48 33.7	.43457	19	23 51.14	30 7.0	.49072	
17		32 23.58	+ 10 55 47.6	.43667	20	25 36.70	36 56.8	.49222	
18		34 3.57	+ 11 3 2.0	.43875	21	27 22.40	43 44.6	.49371	
19		35 43.78	10 16.8	.44082	22	29 8.25	50 30.2	.49518	
20		37 24.22	17 31.9	.44287	23	30 54.24	+ 14 57 13.7	.49663	
21		39 4.88	24 47.2	.44489	24	32 40.37	+ 15 3 55.1	.49807	
22		40 45.77	32 2.6	.44690	25	34 26.64	10 34.2	.49945	
23		42 26.87	39 18.1	.44888	26	36 13.05	17 11.0	.50088	
24		44 8.20	46 33.6	.45085	27	37 59.59	23 45.5	.50226	
25		45 49.74	+ 11 53 48.9	.45279	28	39 46.28	30 17.5	.50361	
26		47 31.49	+ 12 1 4.1	.45472	29	41 33.09	36 47.1	.50491	
27		49 13.45	8 19.0	.45663	30	43 20.03	43 14.1	.50631	
28		50 55.62	15 33.5	.45852	31	45 7.10	49 38.6	.50761	
Mar. 1		52 37.99	22 47.5	.46038	April 1	2 46 54.29	+ 15 56 0.4	0.5089	
2	1	54 20.55	+ 12 30 1.0	0.46223					

“ This ephemeris is a continuation of that published by M. Villarceau in the *Comptes Rendus*, vol. xxxi. pp. 681, 2, and is calculated from the elements at p. 680.”

FLORA.

DURHAM. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

1850.	Greenwich M.T.	App. R.A.	App. N.P.D.	No. of Comps.		
	h m s	h m s	° ' "	R.A.	N.P.D.	Set.
Nov. 5	10 15 22.3	23 58 41.80	101 30 14.2	24	8	7
	11 0 41.0	42.01	4.2	23	8	8
8	11 37 4.0	23 58 59.96	101 13 40.8	9	3	9
21	11 24 17.8	0 3 51.22	99 38 5.1	7	3	10